



Hydrogen Challenges: Production, Storage and Distribution

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Message from the Guest Editors

Dear Colleagues,

Green hydrogen is considered the fuel of the future. The possibility of producing hydrogen utilizing several different renewable energy sources (e.g., solar and wind) will allow, on one hand, the efficient exploitation of this intermittent and unevenly distributed energy source and, on the other hand, the threatening issues associated with greenhouse gas emissions to be tackled. The transition from a fossil fuel-based society to a hydrogen-based society is among the biggest technological challenges that humankind will face in the next 50 years. To overcome this epochal challenge, significant technological advances must be made in the following three technological fields: hydrogen production, hydrogen storage, and hydrogen distribution. In this regard, this Special Issue aims to publish original high-quality research papers as well as review articles that address physically and/or through the use of simulation tools the production of green hydrogen, the storage of hydrogen, and the distribution of hydrogen.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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